#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Taiji SUGA et al.

Serial No.: New Application

Filed: December 19, 2001

For: ANTIGLARE FILM PROCESS FOR PRODUCING THE SAME, AND DISPLAY

DEVICE USING ANTIGLARE FILM

# PRELIMINARY AMENDMENT

Commissioner for Patents Washington, D.C. 20231

Sir:

Prior to examination of the above-identified application, please enter the following specification changes as noted below:

## IN THE CLAIMS:

Please amend claims 6, 10, 11 and 16 as follows:

- 6. (Amended) A polarizing plate comprising the antiglare film according to claim 1.
- 10. (Amended) A display device comprising the antiglare film according to claim 1 disposed on the front of a display.

- 11. (Amended) A display device comprising a touch panel and the antiglare film according to claim 1 formed in that order on the front of a display.
- 16. Amended) An antiglare film produced by the process according to claim 12.

## REMARKS

Claims 1-16 remain pending herein. Claims 6, 10, 11 and 16 have been amended hereby.

This Preliminary Amendment is submitted to eliminate multiply dependent claims from the above-identified application.

Examination of this application on its merits is respectfully requested.

Respectfully submitted,

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December 19, 2001

Date

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Attachment: Claim Mark-ups

Attorney Docket No. DAIN: 659

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#### CLAIMS

- 1. An antiglare film to be disposed on a front of a display device, said antiglare film comprising:
- a transparent plastic film and an antiglare layer, the antiglare layer being formed on a surface of the transparent plastic film, the antiglare layer having fine concaves and convexes on its surface,

wherein said antiglare layer is formed of a transparent resin and satisfies requirements that:

- (1) the surface of the antiglare layer has a three-dimensional ten-point mean roughness of 0.9  $\mu m$  to 3  $\mu m;$  and
- (2) the mean spacing between adjacent profile peaks on a three-dimensional roughness reference plane is 20  $\mu m$  to 50  $\mu m$  .
- 2. The antiglare film according to claim 1, which has a total light transmittance of not less than 87% and a haze of 5 to 40.
- 3. The antiglare film according to claim 1, wherein the transparent resin is a cured product of an ionizing radiation-curable resin.
- 4. The antiglare film according to claim 1, which further comprises a primer layer to be formed between the transparent plastic film and the antiglare layer.
- 5. The antiglare film according to claim 4, wherein the primer layer comprises transparent fine particles.
- 6. A polarizing plate comprising the antiglare film according to  $\underline{\text{claim 1any one of claims 1 to 5}}$ .
- 7. A display device comprising the polarizing plate according to claim 6 disposed on the front of a display.
- 8. A liquid crystal panel for a display device, comprising: two polarizing plates, the liquid crystal display cell being sandwiched between the two polarizing plates, at least one of the polarizing plates being the polarizing plate according to claim 6.
  - 9. A display device comprising the liquid crystal

panel according to claim 8 and a surface light source device disposed on the underside of the liquid crystal panel.

- 10. A display device comprising the antiglare film according to <u>claim 1 any one of claims 1 to 5</u> disposed on the front of a display.
- 11. A display device comprising a touch panel and the antiglare film according to claim 1 any one of claims 1 to 5 formed in that order on the front of a display.
- 12. A process for producing an antiglare film, comprising the steps of:

bringing a transparent plastic film in a molding tool having on its surface concaves and convexes which have an inverted shape of fine concaves and convexes of the antiglare layer to be formed;

placing an ionizing radiation-curable resin between the transparent plastic film and the molding tool;

applying an ionizing radiation to the ionizing radiation-curable resin to cure the ionizing radiation-curable resin and to adhere the cured product of the ionizing radiation-curable resin to the transparent plastic film, thereby forming an antiglare layer having fine concaves and convexes on its surface; and

separating the transparent plastic film with the antiglare layer formed thereon from the molding tool,

said antiglare layer satisfying requirements that:

- (1) the surface of the antiglare layer has a three-dimensional ten-point mean roughness of 0.9  $\mu m$  to 3  $\mu m;$  and
- (2) the mean spacing between adjacent profile peaks on a three-dimensional roughness reference plane is 20  $\mu m$  to 50  $\mu m$
- 13. The process according to claim 12, wherein the molding tool is in a roller form.
- 14. The process according to claim 12, wherein the primer layer is formed on a surface on the transparent

plastic film and the ionizing radiation-curable resin is coated on a surface of the primer layer.

- 15. The process according to claim 12, wherein the primer layer comprises transparent fine particles.
- 16. An antiglare film produced by the process according to claim 12 any one of claims 12 to 15.